Help Logout Interrupt

Main Menu | Search Form | Posting Counts | Show S Numbers | Edit S Numbers | Preferences | Cases

### Search Results -

Term	Documents
TRIS.DWPI,EPAB,JPAB,USPT,PGPB.	111417
TRI.DWPI,EPAB,JPAB,USPT,PGPB.	192808
OXALATO.DWPI,EPAB,JPAB,USPT,PGPB.	326
OXALATOES	0
OXALATOS	0
OXALATOE.DWPI,EPAB,JPAB,USPT,PGPB.	$\overline{1}$
PHOSPHATE.DWPI,EPAB,JPAB,USPT,PGPB.	309593
PHOSPHATES DWPI,EPAB,JPAB,USPT,PGPB.	66663
(1 AND ((TRIS ADJ OXALATO) ADJ PHOSPHATE)).USPT,PGPB,JPAB,EPAB,DWPI.	0
(L1 AND TRIS(OXALATO)PHOSPHATE).USPT,PGPB,JPAB,EPAB,DWPI.	0

	US Patents Full-Text Database US Pre-Grant Publication Full-Text Database JPO Abstracts Database EPO Abstracts Database	
Database:	Derwent World Patents Index IBM Technical Disclosure Bulletins	
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Search:	L2	Refine Search
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# Search History

DATE: Tuesday, January 28, 2003 Printable Copy Create Case

Set Name side by side Hit		Set Name result set
DB= $USPT$ , $PGPB$ , $JPAB$ , $EPAB$ , $DWPI$ ; $PLUR$ = $YES$ ; $OP$ = $ADJ$		
<u>L2</u> L1 AND TRIS(OXALATO)PHOSPHATE	0	<u>L2</u>
<u>L1</u> PHOSPHATE III	420	<u>L1</u>

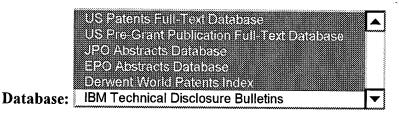
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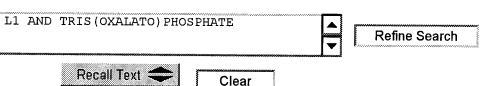
Main Menu | Search Form | Posting Counts | Show S Numbers | Edit S Numbers | Preferences | Cases

#### Search Results -

Term	Documents
PHOSPHATE.DWPI,EPAB,JPAB,USPT,PGPB.	309593
PHOSPHATES.DWPI,EPAB,JPAB,USPT,PGPB.	66663
III.DWPI,EPAB,JPAB,USPT,PGPB.	993627
IIIS.DWPI,EPAB,JPAB,USPT,PGPB.	257
(PHOSPHATE ADJ III).USPT,PGPB,JPAB,EPAB,DWPI.	420
(PHOSPHATE III).USPT,PGPB,JPAB,EPAB,DWPI.	420



Search:



## Search History

DATE: Tuesday, January 28, 2003 Printable Copy Create Case

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Query
side by side

Hit Count Set Name result set

 $DB\!=\!U\!S\!PT\!,\!PGPB\!,\!J\!PAB\!,\!E\!PAB\!,\!DW\!P\!I;\;PLU\!R\!=\!Y\!E\!S\!;\;OP\!=\!\!ADJ$ 

<u>L1</u> PHOSPHATE III 420 <u>L1</u>

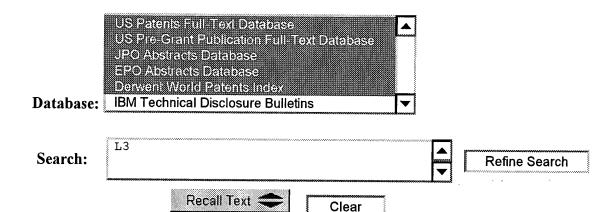
**END OF SEARCH HISTORY** 

Help Logout Interrupt

Main Menu Search Form Posting Counts Show S Numbers Edit S Numbers Preferences Cases

### Search Results -

Term	Documents
TRIS.DWPI,EPAB,JPAB,USPT,PGPB.	111417
TRI.DWPI,EPAB,JPAB,USPT,PGPB.	192808
OXALATO.DWPI,EPAB,JPAB,USPT,PGPB.	326
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OXALATOS	0
OXALATOE.DWPI,EPAB,JPAB,USPT,PGPB.	1
PHOSPHATE.DWPI,EPAB,JPAB,USPT,PGPB.	309593
PHOSPHATES.DWPI,EPAB,JPAB,USPT,PGPB.	66663
((TRIS ADJ OXALATO) ADJ PHOSPHATE).USPT,PGPB,JPAB,EPAB,DWPI.	4
(TRIS(OXALATO)PHOSPHATE).USPT,PGPB,JPAB,EPAB,DWPI.	4



Search History

DATE: Tuesday, January 28, 2003 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB = USP	T,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ		
<u>L3</u>	TRIS(OXALATO)PHOSPHATE	4	<u>L3</u>
<u>L2</u>	L1 AND TRIS(OXALATO)PHOSPHATE	0	<u>L2</u>
<u>L1</u>	PHOSPHATE III	420	<u>L1</u>

END OF SEARCH HISTORY

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## **Search Results -** Record(s) 1 through 4 of 4 returned.

1. Document ID: US 20020161247 A1

L3: Entry 1 of 4

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161247

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020161247 A1

TITLE: Process for making vitamin E using hydrogen-tris(oxalato) phosphate

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Bonrath, Werner

Freiburg

DE

Netscher, Thomas Wietelmann, Ulrich

Bad Krozingen Friedrichsdorf

DE DE

US-CL-CURRENT: 549/411

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Drawd D	eso Ir	nage							-	··	

#### 2. Document ID: WO 107450 A1

L3: Entry 2 of 4

File: EPAB

Feb 1, 2001

PUB-NO: W0000107450A1

DOCUMENT-IDENTIFIER: WO 107450 A1

TITLE: TRIS(OXALATO)PHOSPHATES, METHOD FOR THEIR PREPARATION AND THEIR USE

PUBN-DATE: February 1, 2001

INVENTOR-INFORMATION:

NAME

COUNTRY

WIETELMANN, ULRICH

DE

SCHADE, KLAUS

DE

LISCHKA, UWE

DE

ASSIGNEE-INFORMATION:

NAME

COUNTRY

CHEMETALL GMBH

DE DE

WIETELMANN ULRICH SCHADE KLAUS

DE

LISCHKA UWE

DE

APPL-NO: EP00004301 APPL-DATE: May 12, 2000 PRIORITY-DATA: DE19933898A (July 22, 1999)

INT-CL (IPC):  $\frac{\text{C07 F}}{\text{C07F009}} \frac{9/6571}{6571}$ ;  $\frac{\text{H01 M}}{\text{H01M010}} \frac{10/40}{10/40}$ 

#### ABSTRACT:

CHG DATE=20010302 STATUS=0>The invention relates to tris-(oxalato)phosphates of the general formula MfoundP(C2O4)3! wherein M = H, a metal or N(R<1>R<2>R<3>R<4>), where R<1>, R<2>, R<3>, R<4> are independently H or an alkyl group comprising 1 to 8 C atoms. The invention also relates to a method for preparing such compounds as well as to their use.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims KWC
Draw. D	eso ir	nage								•

## 3. Document ID: CN 1365977 A EP 1227089 A1 US 20020161247 A1 JP 2002284776 A

L3: Entry 3 of 4

File: DWPI

Aug 28, 2002

DERWENT-ACC-NO: 2002-592643

DERWENT-WEEK: 200282

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TITLE: Manufacture of (all-rac)-alpha-tocopherol involves catalyzed reaction of trimethylhydroquinone with isophytol or phytol in the presence of hydrogen tris(oxalato)phosphate as catalyst in organic solvent

INVENTOR: BONRATH, W; NETSCHER, T; WIETELMANN, U

PRIORITY-DATA: 2001EP-0101026 (January 18, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CN 1365977 A	August 28, 2002		000	C07D311/72
EP 1227089 A1	July 31, 2002	E	011	C07D311/72
US 20020161247 A1	October 31, 2002		000	C07D311/76
JP 2002284776 A	October 3, 2002		009	C07D311/72

INT-CL (IPC):  $\underline{\text{C07}}$   $\underline{\text{B}}$   $\underline{61}/\underline{00}$ ;  $\underline{\text{C07}}$   $\underline{\text{D}}$   $\underline{311}/\underline{72}$ ;  $\underline{\text{C07}}$   $\underline{\text{D}}$   $\underline{311}/\underline{76}$ 

ABSTRACTED-PUB-NO: EP 1227089A

BASIC-ABSTRACT:

NOVELTY - An (all-rac) - alpha -tocopherol is manufactured by the catalyzed reaction of trimethylhydroquinone with isophytol or phytol in the presence of hydrogen tris(oxalato)phosphate as the catalyst in an organic solvent.

USE - For the manufacture of (all-rac) - alpha -tocopherol.

ADVANTAGE - The use of catalyst in the invention avoids corrosion, is non-toxic, does not contaminate the environment, e.g. with chlorinated by-products or heavy metal ions, and catalyzes the desired reaction in high yields and selectivity. The catalyst can display its activity in small, really catalytic, and can be readily separable and re-usable several times.

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Full	Title	Citation	Front	Review	Clacoffication	Date	Poforonos	Campanasa	Attachments
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Drawu D	eso li	nage							

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# 4. Document ID: CN 1361787 A DE 19933898 A1 WO 200107450 A1 EP 1203001 A1 KR 2002013967 A

L3: Entry 4 of 4

File: DWPI

Jul 31, 2002

DERWENT-ACC-NO: 2001-235979

DERWENT-WEEK: 200279

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TITLE: Novel halogen-free metal <a href="mailto:tris(oxalato)">tris(oxalato)</a> phosphates useful as conductive salts in electrochemical storage devices <a href="mailto:such as lithium batteries">such as lithium batteries</a>

INVENTOR: LISCHKA, U; SCHADE, K; WIETELMANN, U

PRIORITY-DATA: 1999DE-1033898 (July 22, 1999)

#### PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CN 1361787 A	July 31, 2002		000	C07F009/6571
DE 19933898 A1	February 1, 2001		008	C07F009/141
WO 200107450 A1	February 1, 2001	G	000	C07F009/6571
EP 1203001 A1	May 8, 2002	G	000	C07F009/6571
KR 2002013967 A	February 21, 2002		000	C07F009/6571

INT-CL (IPC):  $\underline{\text{C07}} \ \underline{\text{F}} \ \underline{9/141}; \ \underline{\text{C07}} \ \underline{\text{F}} \ \underline{9/6571}; \ \underline{\text{H01}} \ \underline{\text{M}} \ \underline{10/40}$ 

ABSTRACTED-PUB-NO: DE 19933898A

BASIC-ABSTRACT:

NOVELTY - Metal tris(oxalato)phosphates are new.

DETAILED DESCRIPTION - Metal tris(oxalato)phosphates of formula (I) are new.

M = Lithium (Li), sodium (Na), potassium (K), rubidium (Rb), cesium (Cs) or N(R1R2R3R4);

R1 - R4 = H or 1-8C alkyl.

INDEPENDENT CLAIMS are also included for the following:

- (i) lithium tris(oxalato)phosphate Li(P(C2O4)3);
- (ii) Na <a href="mailto:tris(oxalato)phosphate">tris(oxalato)phosphate</a> Na(P(C2O4)3); and
- (iii) preparation of (I).

USE - Compound of formula (I) is used as conductive salts in electrochemical storage devices (e.g., batteries or supercondensers), the use of the Li compound being specifically claimed in Li batteries.

ADVANTAGE - The problems associated with prior-art compounds such as borate complexes are overcome. (I) is halogen-free, of good-to-very good solubility in aprotic solvents, is electrochemically- and thermally-stable and gives electrolytes with good conductivity. Conductivity values up to 9.7mS/cm can be achieved.

DESCRIPTION OF DRAWING(S) - The drawing is a cyclovoltammogram plotting the current in mA against the potential against Li/Li+ for a solution of Li  $\underline{\text{tris}}(\text{oxalato})$  phosphate in a 1 : 1 ethylene carbonate/dimethylcarbonate solution. (Drawing includes non-English language text).

Full Title	Citation	Front	Ravism	Claceitication	Conta	Deference	Seguences	Attachments
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(TRIS(OXALATO)PHOSPHATE).USPT,PGPB,JPAB,EPAB,DWPI.	4

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